

JPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 5591**  
Kenichi MORI et al. : **Mail Stop: PCT**  
Serial No. 10/560,622 : Attorney Docket No. 2005\_1934A  
Filed December 14, 2005 :  
  
WIRELESS COMMUNICATIONS  
SYSTEM AND WIRELESS DIGITAL  
RECEIVER FOR USE THEREIN : THE COMMISSIONER IS AUTHORIZED  
[Corresponding to PCT/JP2005/002386] : TO CHARGE ANY DEFICIENCY IN THE  
Filed February 9, 2005] : FEE FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975.

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed

1a.  This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b.  This Information Disclosure Statement is submitted  
after the events of above paragraph 1a and prior to the mailing date of a final Office  
Action or a Notice of Allowance or an action which otherwise closes prosecution in the  
application, and thus:

- (1)  the certification of paragraph 2 below is provided, **or**
- (2)  the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

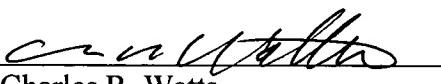
1c.  This Information Disclosure Statement is submitted:  
after the mailing date of a final Office Action or Notice of Allowance or action which  
otherwise closes prosecution in the application, and prior to payment of the issue fee, and  
thus:  
**the certification of paragraph 2 below is provided, and**  
**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified
  - a.  that each item of information contained in this Information Disclosure Statement  
was first cited in any communication from a foreign patent office in a counterpart  
foreign application not more than three months prior to the filing of the  
Statement, or
  - b.  that no item of information contained in the Information Disclosure Statement  
was cited in a communication from a foreign patent office in a counterpart  
foreign application and, to the knowledge of the person signing the certification  
after making reasonable inquiry, was known to any individual designated in  
§1.56(c) more than three months prior to the filing of the Statement.
3.  Consideration of the following list of additional information (including any copending or  
abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a full or partial English language translation submitted herewith,
  - a foreign patent office search report (in the English language) submitted herewith,
  - the concise explanation contained in the specification of the present application at pages 1, 3, and 10,
  - the concise explanation set forth in the attached English language abstract,
  - the concise explanation set forth below or on a separate sheet attached to the reference:
5.  A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Kenichi MORI et al.

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March 23, 2006

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

ATTY DOCKET NO.  
2005\_1934ASERIAL NO.  
10/560,622U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: March 23, 2006

APPLICANT  
Kenichi MORI et al.FILING DATE  
December 14, 2005

GROUP

MAR 23 2006  
U.S. PATENT & TRADEMARK OFFICE

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/S.P./	AH	3088893	7/2000	Japan			Abstract
/S.P./	AI	10-98500	4/1998	Japan			Abstract
	AJ						
	AK						
	AL						

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

/S.P./	AM	Jan Crols et al., "Low-IF Topologies for High-Performance Analog Front Ends of Fully Integrated Receivers", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II: ANALOG AND DIGITAL SIGNAL PROCESSING, Vol. 45, No. 3, pages 269-282, March 1998.
/S.P./	AN	Mikko Valkama et al., "Advanced Methods for I/Q Imbalance Compensation in Communication Receivers", IEEE TRANSACTIONS ON SIGNAL PROCESSING, Vol. 49, No. 10, pages 2335-2344, October 2001.
/S.P./	AO	Kiyomichi Araki ed., "Software Musen No Kiso To Oyo (Basics and Applications of Software Radio)", SIPEC Corporation Knowledge Service Department, page 123, October 2002.
/S.P./	AP	"Dedicated Short-Range Communication System, ARIB Standard", STD-T75, Ver. 12, page 33, September 2001.

EXAMINER

/Sudhanshu Pathak/

DATE CONSIDERED

03/11/2009